

INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE
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Applicants: C.F. Konzak et al. Attorney Docket No. KONC118633
 Application No. 10/049,143
 Title: February 5, 2002
 Title: METHODS FOR GENERATING DOUBLED HAPLOID PLANTS

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
<u>Amc</u>	U1	5,049,503		09/17/1991	Swanson et al.
	U2	5,272,072		12/21/1993	Kaneko et al.
	U3	5,322,789		06/21/1994	Genovesi et al.
	U4	5,445,961		08/29/1995	Genovesi et al.
<u>Amc</u>	U5	5,900,375		05/04/1999	Simmonds et al.

FOREIGN PATENT DOCUMENTS

None

OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Cite No.	
<u>Amc</u>	O1	"Development of a Functional Microspore Culture System for Barley (<i>Hordeum vulgare</i> L.) Cultivars," as early as 1997, < http://tdg.uoguelph.ca/CRSC/cereals/culture.htm >.
	O2	Armstrong, T.A., et al., "Two Regeneration Systems for the Production of Haploid Plants From Wheat Anther Culture," <i>Plant Science</i> 51:231-237, 1987.
<u>Amc</u>	O3	Ball, S.T., et al., "Influence of 2,4-D, IAA, and Duration of Callus Induction in Anther Cultures of Spring Wheat," <i>Plant Science</i> 90:195-200, 1993.

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- O4 Ball, S.T., et al., "Sucrose Concentration and Its Relationship to Anther Culture in Wheat," *Crop Science* 32:149-154, 1992.
- O5 Bennett, M.D., and W.G. Hughes, "Additional Mitosis in Wheat Pollen Induced by Ethrel," *Nature* 240:566-568, December 1972.
- O6 Bin, H., "Ultrastructural Aspects of Pollen Embryogenesis in *Hordeum*, *Triticum* and *Paeonia*," in H. Hu and H.Y. Yang (eds.), *Haploids of Higher Plants in Vitro*, China Academic Publishers, Beijing, 1986, pp. 91-117.
- O7 Chu, C.-C., "The N6 Medium and Its Applications to Anther Culture of Cereal Crops," Proceedings of Symposium on Plant Tissue Culture, Sci. Press, Peking, China, 1978, pp. 43-50.
- O8 Chu, C.-C., and R.D. Hill, "An Improved Anther Culture Method for Obtaining Higher Frequency of Pollen Embryoids in *Triticum aestivum* L.," *Plant Science* 55:175-181, 1988.
- O9 Chu, C.-C., et al., "High Frequency of Pollen Embryoid Formation and Plant Regeneration in *Triticum aestivum* L. on Monosaccharide Containing Media," *Plant Science* 66:255-262, 1990.
- O10 Dale, P.J., "Pollen Dimorphism and Anther Culture in Barley," *Planta* 127:213-220, 1975.
- O11 Darvey, N.L., "Doubled Haploid Technology: An Interactive Model for Germplasm Enhancement," *Proceedings of the 9th International Wheat Genetics Symposium*, Saskatoon, Canada, August 2-7, 1998.
- O12 De Buyser, J., et al., "Induction of Androgenetic Embryos and Chlorophyllian Plants of *Triticum aestivum* From Isolated Microspore Culture," *Proceedings of the 9th International Wheat Genetics Symposium*, Saskatoon, Canada, August 2-7, 1998.
- O13 Devaux, P., "Comparison of Anther Culture and the *Hordeum bulbosum* Method for the Production of Doubled Haploids in Winter Barley," *Plant Breeding* 100:181-187, 1988.
- O14 Falconer, M.M., and R.W. Seagull, "Amiprophos-Methyl (APM): A Rapid, Reversible, Anti-Microtubule Agent for Plant Cell Cultures," *Protoplasma* 136:118-124, 1987.
- O15 Gustafson, V.D., et al., "Isolated Wheat Microspore Culture," *Plant Cell, Tissue and Organ Culture* 42:207-213, 1995.
- Amc O16 Heberle-Bors, E., "In Vitro Haploid Formation From Pollen: A Critical Review," *Theoretical and Applied Genetics* 71:361-374, 1985.

- Amc*
- O17 Heberle-Bors, E., "In Vitro Pollen Embryogenesis in *Nicotiana tabacum* L. and Its Relation to Pollen Sterility, Sex Balance, and Floral Induction of the Pollen Donor Plants," *Planta* 156:396-401, 1982.
- O18 Heberle-Bors, E., "Induction of Embryogenic Pollen Grains in Situ and Subsequent in Vitro Pollen Embryogenesis in *Nicotiana tabacum* by Treatments of the Pollen Donor Plants With Feminizing Agents," *Physiol. Plant.* 59:67-72, 1983.
- O19 Heberle-Bors, E., "On the Time of Embryogenic Pollen Grain Induction During Sexual Development of *Nicotiana tabacum* L. Plants," *Planta* 156:402-406, 1982.
- O20 Henry, Y., and J. de Buyser, "Effect of the 1B/1R Translocation on Anther Culture Ability in Wheat (*Triticum aestivum* L.)," *Plant Cell Reports* 4:307-310, 1985.
- O21 Hu, T.C., and K.J. Kasha, "Improvement of Isolated Microspore Culture of Wheat (*Triticum aestivum* L.) Through Ovary Co-Culture," *Plant Cell Reports* 16:520-525, 1997.
- O22 Hu, T.C., et al., "Isolated Microspore Culture of Wheat (*Triticum aestivum* L.) in a Defined Media," *In Vitro Cell. Dev. Biol.* 31:79-83, April 1995.
- O23 Jähne, A., and H. Lörz, "Cereal Microspore Culture," *Plant Science* 109:1-12, 1995.
- O24 Junwen, O., "Induction of Pollen Plants in *Triticum aestivum*," in H. Hu and H.Y. Yang (eds.), *Haploids of Higher Plants in Vitro*, China Academic Publishers, Beijing, 1986, pp. 26-41.
- O25 Kasha, K.J., et al., "Cytological Development of Wheat Microspores in Culture," *Proceedings of the 9th International Wheat Genetics Symposium, Keynote Addresses and Oral Presentations*, Vol. 1, Sect. 5, "Transgenics," August 2-7, 1998.
- O26 Kasha, K.J., et al., "Haploids in Cereal Improvement: Anther and Microspore Culture," *Gene Manipulation in Plant Improvement II*, Crop Science Dept., Univ. of Guelph, Ontario, Canada, 1990, pp. 213-230.
- O27 Köhler, F., and G. Wenzel, "Regeneration of Isolated Barley Microspores in Conditioned Media and Trials to Characterize the Responsible Factor," *J. Plant Physiol.* 121:181-191, 1985.
- O28 Kyo, M., and H. Harada, "Control of the Developmental Pathway of Tobacco Pollen in Vitro," *Planta* 168:427-432, 1986.
- Amc*
- O29 Mejza, S.J., et al., "Plant Regeneration From Isolated Microspores of *Triticum aestivum*," *Plant Cell Reports* 12:149-153, 1993.

- Amc* O30 Morejohn, L.C., et al., "Oryzalin, a Dinitroaniline Herbicide, Binds to Plant Tubulin and Inhibits Microtubule Polymerization in Vitro," *Planta* 172:252-264, 1987.
- O31 Picard, E., et al., "Significant Improvement of Androgenetic Haploid and Doubled Haploid Induction From Wheat Plants Treated With a Chemical Hybridization Agent," *Theoretical and Applied Genetics* 74:289-297, 1987.
- O32 Puolimatka, M., et al., "Effect of Ovary Co-Cultivation and Culture Medium on Embryogenesis of Directly Isolated Microspores of Wheat," *Cereal Research Communications* 24(4):393-400, 1996.
- O33 Reynolds, T.L., and R.L. Crawford, "Changes in Abundance of an Absciscic Acid-Responsive, Early Cysteine-Labeled Metallothionein Transcript During Pollen Embryogenesis in Bread Wheat (*Triticum aestivum*)," *Plant Molecular Biology* 32:823-829, 1996.
- O34 Touraev, A., et al., "Efficient Microspore Embryogenesis in Wheat (*Triticum aestivum* L.) Induced by Starvation at High Temperature," *Sex Plant Reprod.* 9:209-215, 1996.
- O35 Touraev, A., et al., "Stress-Induced Microspore Embryogenesis in Tobacco: An Optimized System for Molecular Studies," *Plant Cell Reports* 15:561-565, 1996.
- O36 Tuveson, I.K.D., and R.C.V. Öhlund, "Plant Regeneration Through Culture of Isolated Microspores of *Triticum aestivum* L.," *Plant Cell, Tissue and Organ Culture* 34:163-167, 1993.
- O37 Vaughn, K.C., and L.P. Lehnen, Jr., "Mitotic Disrupter Herbicides," *Weed Science* 39:450-457, 1991.
- O38 Xie, J., et al., "Improved Isolated Microspore Culture Efficiency in Medium With Maltose and Optimized Growth Regulator Combination in Japonica Rice (*Oryza sativa*)," *Plant Cell, Tissue and Organ Culture* 42:245-250, 1995.
- O39 Zheng, Y., "The Effect of 2,4-D in Pre-Culture Media Before the Isolation of Microspores for In-Vitro Culture," doctoral thesis, Chapter 4, Washington State University, 1994.
- O40 Zhou, H., and C.F. Konzak, "Genetic Control of Green Plant Regeneration From Anther Culture of Wheat," *Genome* 35:957-961, December 1992.
- Amc* O41 Zhou, H., and C.F. Konzak, "Improvement of Anther Culture Methods for Haploid Production in Wheat," *Crop Sci.* 29:817-821, 1989.

Am O42 Zhou, H., et al., "Osmotic Potential of Media Affecting Green Plant Percentage
in Wheat Anther Culture," *Plant Cell Reports* 10:63-66, 1991.

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